

MULTIMEDIA



UNIVERSITY

STUDENT ID NO

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# MULTIMEDIA UNIVERSITY

## FINAL EXAMINATION

TRIMESTER 1, 2017/2018

**BCP2214– COMPUTER PROGRAMMING**  
(All sections / Groups)

**21 OCT 2017  
9.00 AM -11.00 AM  
(2 Hours)**

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### INSTRUCTIONS TO STUDENTS

1. This question paper consists of **TWO (2)** printed pages with four essay questions.
2. Answer **ALL** questions.
3. The answer should be written in the answer booklet.

**Instructions: Answer all questions. Write your answer in the answer booklet.**

**Question 1**

- a. Write a C++ program to enter a number to check whether it is a prime number or not, then display it on the screen: [10 Marks]
- b. Write a C++ program to calculate the simple interest repeatedly until the user enter choice as “N”.

Simple interest =  $(P \cdot N \cdot Y) / 100$ , where P – Principle , N- Number of years and R is rate of interest. [15 Marks]

**Question 2**

- a. Using arrays, write a C++ program to enter the marks obtained in five subjects then calculate and display the average and total percentage marks. [ 15 marks]

$$\text{Average} = \text{sum of 5 subject marks} / 5$$

$$\text{Percentage} = (\text{sum of 5 subject marks} / 500) * 100$$

- b. Write a C++ program to enter the array size and array value then find the largest number in the array and display the result. [10 Marks]

**Question 3**

- a. Using function, write a C++ program to enter the temperature in centigrade to convert it into Fahrenheit, then display the result. [ 10 Marks]
- b. Write a C++ program to find factorial value using function. [15 Marks]

**Continued.....**

**Question 4**

Define a class to represent a bank account. Include the following members: [25 Marks]

Data members:

- 1) Name of the depositor
- 2) Account number
- 3) Type of account
- 4) Balance amount in the account.

Member functions:

- 1) To assign initial values
- 2) To deposit an amount
- 3) To withdraw an amount after checking the balance
- 4) To display name and balance.

Write a main program to test the program and display results as per the following format:

Output:

```
Enter Details:  
-----  
Accout No. 45789123  
  
Name : Mangala  
  
Account Type : Saving  
  
Balance : 50000  
  
Enter Deposit Amount = 5000  
  
Enter Withdraw Amount = 10000  
  
-----  
Accout No. : 45789123  
Name : Mangala  
Account Type : Saving  
Balance : 45000
```

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